

WHAT IS CLAIMED IS:

1. Rescue underlay for mattresses (1), comprising
a substantially rectangular underlay mat (4) consisting of a plastic flat material which
5 has a high tensile strength, the dimensions of which approximately correspond with the
dimensions of the mattress (1),
pull loops (5) or the like, patient securing belts (6) and, optionally, mattress retaining
bands (7) or the like, all attached to the underlay mat (4),
characterised in that
10 the plastic flat material of the underlay mat (4) is a flat material that itself is providing a
spring travel.
2. Rescue underlay according to claim 1, characterised in that the plastic flat material
is a spacer woven fabric or, in particular, a spacer knitted fabric.
- 15 3. Rescue underlay according to claim 2, characterised in that the spacer woven fabric
or spacer knitted fabric has a thickness of 4 mm to 20 mm, preferably of approximately
6 mm to approximately 14 mm, particularly of 6 mm or of 10 mm or of 14 mm.
- 20 4. Rescue underlay according to any one of the claims 1 to 3, characterised in that the
plastic flat material is a flame-resistant or fire-proof material and/or a non-decaying ma-
terial and/or a non-hygroscopic material and/or polyester material, polyamide fiber ma-
terial, in particular aramide fiber material, glass fiber material or saran fiber material.
- 25 5. Rescue underlay according to any one of the claims 1 to 4, characterised in that the
plastic flat material, particularly the spacer woven fabric or spacer knitted fabric, has at
the underside a closed plastic film coating (8), preferably of polyurethane material or of
polyester material which has a low sliding friction, preferably a lower sliding friction
than the plastic flat material itself.

6. Rescue underlay according to claim 5, characterised in that the film coating (8) is water-impermeable, washable and readily able to be disinfected as well as, preferably, air-permeable.

5 7. Rescue underlay according to any one of the claims 1 to 6, characterised in that the plastic flat material has on the underside, particularly on the film coating (8), at least one area with higher sliding friction which optionally acts as a braking surface (9).

10 8. Rescue underlay according to claim 7, characterised in that the braking surface (9) is arranged in at least one end region of the underlay mat (4).

15 9. Rescue underlay according to any one of the claims 1 to 8, characterised in that an additional layer (10) of a plastic flat material providing a spring travel, particularly a spacer woven fabric or a spacer knitted fabric, is fixedly attached, particularly sewn, glued and/or welded, to the underlay mat (4), preferably at the underside, in an end region thereof.

20 10. Rescue underlay for mattresses (1), comprising a substantially rectangular underlay mat (4) consisting of a plastic flat material which has a high tensile strength, the dimensions of which approximately correspond with the dimensions of the mattress (1), pull loops (5) or the like, patient securing belts (6) and, optionally, mattress retaining bands (7) or the like, all attached to the underlay mat (4), particularly according to any one of the claims 1 to 9,
25 **characterised in that** the patient securing belts (6) are placed at the edge of the underlay mat (4) and are connected at the free ends thereof with the material of the underlay mat (4) by sewing or by means of VELCRO hook and loop connections in a way enabling tearing off of the free ends if necessary.

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11. Rescue underlay for mattresses (1), comprising

a substantially rectangular underlay mat (4) consisting of a plastic flat material which has a high tensile strength, the dimensions of which approximately correspond with the dimensions of the mattress (1),

pull loops (5) or the like, patient securing belts (6) and, optionally, mattress retaining
5 bands (7) or the like, all attached to the underlay mat (4),
particularly according to any one of the claims 1 to 9,

characterised in that

the underlay mat (4), preferably on its underside, is provided with tunnel-like receptions
(12) accommodating the patient securing belts (6), wherein the patient securing belts (6)
10 when not in use are positioned within the tunnel-like receptions (12) lengthwise,
wherein one end of the respective patient securing belt (12), in particular a closure element (11) at the end of the patient securing belt (12), is protruding from the tunnel-like
reception (12) such that it can be easily located and gripped in a rescue situation.

15 12. Rescue underlay according to claim 11, characterised in that the tunnel-like receptions (12) are positioned substantially transversely to the underlay mat (4).

13. Rescue underlay according to claim 11 or claim 12, characterised in that the tunnel-like receptions (12) are connected to the underlay mat (4) by sewing, in particular to
20 the underside thereof.

14. Rescue underlay according to any one of the claims 1 to 13, characterised in that the rescue underlay comprises altogether three patient securing belts (6) positioned in different distances from the head end of the underlay mat (4), wherein those distances
25 preferably are about 50 cm, about 80 cm and about 120 cm.

15. Mattress characterised in that a rescue underlay, preferably a rescue underlay according to any one of the claims 1 to 14, is permanently affixed to the mattress or is integrated into the mattress.